<b>∌</b>	Application No.	Applicant(s)
Notice of Allowability	09/473,868	HANAOKA ET AL.
	Examiner	Art Unit
	Abbas I Abdulselam	2674
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this a ) or other appropriate communicat (IGHTS. This application is subjec	application. If not included ion will be mailed in due course. <b>THIS</b>
1. This communication is responsive to <u>12/16/04</u> .		
2. The allowed claim(s) is/are <u>1-17</u> .		
3. $\bowtie$ The drawings filed on <u>28 December 1999</u> are accepted by	the Examiner.	
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority up a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	e been received. e been received in Application No.	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		oly complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be subminformal PATENT APPLICATION (PTO-152) which give		
6. ☐ CORRECTED DRAWINGS ( as "replacement sheets") mu  (a) ☐ including changes required by the Notice of Draftspers  1) ☐ hereto or 2) ☐ to Paper No./Mail Date  (b) ☐ including changes required by the attached Examiner Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1) each sheet. Replacement sheet(s) should be labeled as such in 17. ☐ DEPOSIT OF and/or INFORMATION about the deposition of the sheet in the s	son's Patent Drawing Review(PT  's Amendment / Comment or in the 1.84(c)) should be written on the dra the header according to 37 CFR 1.12	e Office action of wings in the front (not the back) of 21(d).
attached Examiner's comment regarding REQUIREMENT		
<ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date</li></ul>	6. Interview Summa Paper No./Mail I 08), 7. Examiner's Ame	Date  ndment/Comment  ment of Reasons for Allowance
	XIAO WU PRIMARY EXAMI	NER

## : DETAILED ACTION

## Allowable Subject Matter

1. The following is an examiner's statement of reasons for allowance:

Ohe et al. (USPN 6504594) teach a picture element electrode with an H-shaped structure, as shown in FIG. 4, a common electrode 5 with a cruciform structure, a part of each of the electrodes having a structure functioning as capacitance elements.

Regarding claim 1, none of the cited prior art teaches or suggests a method of driving a liquid crystal display device, said liquid crystal display device comprising: a first substrate; a second substrate opposing said first substrate with a gap there between; a liquid crystal layer confined in said gap; a thin-film transistor formed on said first substrate; a conductor pattern formed on said first substrate in electrical connection with said thin-film transistor, said conductor pattern supplying an alternate-current driving voltage signal to said thin-film transistor; a pixel electrode provided on said first substrate in electrical connection to said thinfilm transistor; an auxiliary electrode having an H-shaped form including a pair of parallel conductor portions and a conductor portion connecting said parallel conductor portions, formed on said first substrate in the vicinity of said data bus line such that said parallel conductor portions extend along said data bus line and so as to form an auxiliary capacitance connected parallel to said pixel electrode said auxiliary electrode being disposed so as to induce a lateral electric field between said auxiliary electrode and said data bus line; and an opposing electrode formed on said second substrate; said method comprising the step of applying to said auxiliary electrode a common voltage substantially equal to a central voltage of said alternate-current driving voltage signal, wherein the liquid crystal display device is a twisted-nematic type.

Art Unit: 2674

Regarding claim 8, none of the cited prior art teaches or suggests a liquid crystal display device, said liquid crystal display device comprising: a first substrate; a second substrate opposing said first substrate with a gap there between; a liquid crystal layer confined in said gap; a thin-film transistor formed on said first substrate; a data bus line formed in electrical connection with said thin-film transistor; a driving circuit supplying an alternate-current driving voltage signal to said thin-film transistor via said data bus line; a pixel electrode provided on said first substrate in electrical connection to said thin-film transistor; an auxiliary electrode having an H-shaped form including a pair of parallel conductor portions and a conductor portion connecting said parallel conductor portions, formed on said first substrate in the vicinity of said data bus line such that said parallel conductor portions extend along said data bus line and so as to form an auxiliary capacitance connected parallel to said pixel electrode said auxiliary electrode being disposed so as to induce a lateral electric field between said auxiliary electrode and said data bus line; an opposing electrode formed on said second substrate; and a directcurrent source applying, to said auxiliary electrode, a common voltage substantially equal to a central voltage of said alternate-current driving voltage signal, wherein the liquid crystal display device is a twisted-nematic type.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Application/Control Number: 09/473,868 Page 4

Art Unit: 2674

2. Any inquiry concerning this communication or earlier communication from the examiner

should be directed to Abbas Abdulselam whose telephone number is (703) 305-8591. The

examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Richard Hjerpe, can be reached at (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington,

VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology center 2600 customer Service office whose telephone

number is (703) 306-0377.

Abbas Abdulselam

Examiner

Art Unit 2674

January 17, 2005

XIAO WU PRIMARY EXAMINER